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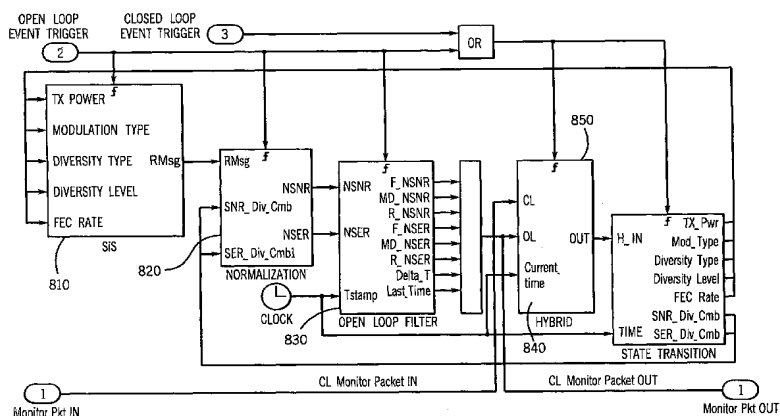
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[Continued on next page]

(54) Title: LINK ADAPTION FOR MOBILE AD HOC AND MESH NETWORKS



(57) **Abstract:** A method of selecting linked metric measurements from at least one of open loop and closed loop measurements is disclosed. The method includes sending by a first node a first radio communication and receiving by a second node the first radio communication over a communication link. The method also includes estimating by a second node dynamics of the communication channel using at least one of the variance and mean deviation of linked metric measurements. The link metric measurements are at least one of symbol error rate (SER), packet error rate (PER), frame error rate (FER), bit error rate (BER), signal to noise ration (SNR), and received signal strength (RSS). The method also includes the use of the above link metric measurements by the second node as Open Loop metrics and the sending back of these metrics to the first node for use as Closed Loop metrics by the first node. The method also includes categorizing the dynamics of the communications channel into one of at least two groups based on the estimate. Further still, the method comprises selecting, based on the chosen group, the use of at least one of closed loop link adaption and open loop link adaption of communication link parameters.



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